

ABSTRACT OF THE DISCLOSURE

A pseudotyped baculovirus comprises a deletion, inactivation or reduction from regulation of a baculovirus envelope protein gene, and is engineered to express an envelope protein from another virus or cell, or another protein or molecule that facilitates entry of the baculovirus into a non-host cell, or provided with a heterologous envelope protein or another protein or molecule that facilitates entry of the baculovirus into a non-host cell by other suitable means. Such baculoviruses can be used to efficiently deliver genes to mammalian cells or organisms, and such genes can be expressed either from the baculovirus genome, or integrated into the mammalian cell genome, and can be used for expression of proteins such that purification of secreted or other protein products does not require removal of contaminating baculovirus particles or baculovirus envelope proteins.